

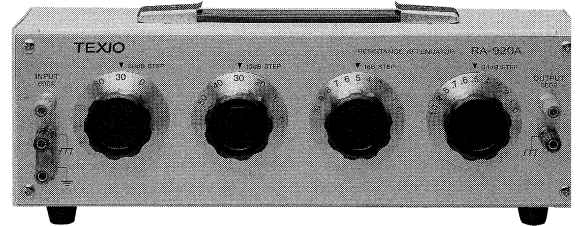
# Resistance Attenuator

## RA-920A Resistance Attenuator

- Attenuation range 0 ~ 121dB (0.1dB steps)
- Frequency range DC ~ 1MHz
- Input/output impedance 600Ω

### RA-920A Specifications

Model	RA-920A
Frequency range	DC to 1MHz
Attenuation range	0 to 121dB
Frequency response DC to 150kHz DC to 1MHz	Reference? to 1kHz response ±0.5dB on 0 to 100dB range? ± 0.1dB on 0 to 121dB range? ±1.5dB on 0 to 60dB range?
Max. input level	±27dBm 0.5W, or 17Vrms
Input and output impedance	600Ω ±10Ω
Circuits	Unbalanced-T and bridge-T networks
Dimensions (W x H x D)mm	335 x 105 x 87
Net weight (kg)	Approx. 2.0



# Hand Held Digital Multimeters



**DL-92**  
Basic accuracy 0.3%  
Full scale 3999



**DL-94**  
Basic accuracy 0.1%  
Full scale 5000

### General Specifications

	DL-92	DL-94
Measurement functions	DC voltage, AC voltage, DC current, AC current, resistance, diode check, continuity check, frequency, static capacity, adaptor input	DC voltage, AC voltage, DC current, AC current, resistance, diode check, continuity check, frequency, logic level static capacity
Display	LCD display	LCD display
Maximum display	3999/40-segment bar graph	5000/50-segment bar graph
Polarity display	Automatic switching. "-" displayed with negative polarity.	
Over-range display	The highest digit/4 is displayed and blink	"OL" is displayed
Computations	HOLD, STORE/RECALL, MAX/MIN, REL	HOLD, MAX, AVG, MIN, dBm, Δ, Δ/r
Power-Save Function	Auto power-OFF is activated in approx. 30 minutes later. This function can be defeated	Enters sleep mode in 15 minutes Auto power-OFF 15 more minutes later
Guaranteed Environment	23°C, ±5 °C, 70%RH or less	23°C, ±5°C, 70%RH or less
Power source	1.5V DC(SUM-3/EC R6/LR6 manganese battery or alkaline battery × 2)	9V DC (JIS 006P/IEC6F22 manganese battery or alkaline battery × 1)
Battery life	Approx. 500 hours(manganese batteries) Approx. 1000 hours(alkaline batteries)	Approx. 50 hours (manganese batteries) Approx. 90 hours (alkaline batteries)
Dimensions (mm)	Approx. 77 (W) x 34 (H) x 162(D)	Approx. 77 (W) x 34(H) x 162(D)
Weight	Approx. 290g (including battery)	Approx. 440g (including battery)
Accessories	Instruction manual (1), test lead set (1 set), holster	

### ● AUTO POWER OFF

Incorporation of auto power off circuit which prevents from an excessive use of battery even when switch off the power was forgotten.

### ● AUTO/MANUAL RANGES

Enable the change-over of manual range and auto range in each DCV/ACV/ Ω measuring mode.

### ● ANALOG BARGRAPH

This series is also equipped not only by digital numerical value display, but also by analog bargraph that invite you to read the value easily.

### [DL-92 SPECIFICATION] DC VOLTAGE

RANGE	RESOLUTION	ACCURACY	INPUT IMPEDANCE
400mV	100μV	± (0.3% of rdg+2digit)	100MW
4V	1mV	± (0.5% of rdg+2digit)	10MW
40V	10mV		
400V	100mV	± (0.7% of 1dg+2dg)	9.1MW
1000V	1V		

(MAXIMUM INPUT VOLTAGE: ±1000Vdc, 750VACrms)

### AC VOLTAGE

RANGE	RESOLUTION	ACCURACY	INPUT IMPEDANCE
400V	100μV	50Hz-100Hz ± (1.5% of rdg+5digit)	100MW// 50pF
4V	1mV	50Hz-500Hz ± (1.0% of rdg+5digit)	10MW//
40V	10mV	± (1.0% of rdg+5digit)	50pF
400V	100mV	500Hz-1kHz ± (1.5% of rdg+5digit)	9.1MW//
750V	1V		50pF

### [DL-94 SPECIFICATION] DC VOLTAGE

RANGE	RESOLUTION	ACCURACY	INPUT IMPEDANCE
500mV	100μV	± (0.1% of rdg+2digit)	1000MW
5V	1mV		11MW
50V	10mV		10MW
500V	100mV		
1000V	1V		

(MAXIMUM INPUT VOLTAGE: -1200Vdc, 850VACrms/5V-100V RANGE)

### AC VOLTAGE

RANGE	RESOLUTION	ACCURACY		
		50Hz-60Hz	45Hz-5kHz	5kHz-20kHz
500mV	100μV	± (1.0% of rdg+5digit)	± (1.5% of rdg+5digit)	± (3.0% of rdg+5digit)
5V	1mV			
50V	10mV			
500V	100mV			
750V	1V	45Hz-1kHz ± (2.0% of rdg+5digit)		